

longitudinal axis, biasing said motion toward the substrate, wherein the resistor is selected from a plurality of springs, an elastomeric membrane and the weight of the capillary,

wherein the system is operative to print whereby the actuator urges the capillary along its longitudinal axis toward the substrate to contact the substrate, thereby decelerating the capillary to move the agent through the bore, out the tip and onto the substrate.

2. (Unamended) The printing system of claim 1, wherein the resistor is the weight of the capillary.
3. (Amended) The printing system of claim 1 wherein the printing device is one of a detachable ganged plurality of printing devices, each comprising a reservoir containing an agent unique to the reservoir.
4. (Amended) The printing system of claim 1 wherein the printing device is one of a detachable ganged plurality of printing devices, each comprising a reservoir containing an agent unique to the reservoir, and the detachable ganged plurality is of one-piece construction.
5. (Amended) The printing system of claim 1 wherein the printing device is one of a detachable ganged plurality of printing devices, each comprising a reservoir containing an agent unique to the reservoir, and the detachable ganged plurality comprises a block having receptacles for and which laterally constrain each of the printing devices.
6. (Amended) The printing system of claim 1 wherein the printing device is one of a detachable ganged plurality of printing devices, each comprising a reservoir containing an agent unique to the reservoir, and the detachable ganged plurality comprises a rigid or elastomeric band or clamp to gang together the printing devices.
7. (Unamended) The printing system of claim 1, wherein the bore tapers toward the distal opening of the tip.
8. (Unamended) The printing system of claim 1, wherein the printing device comprises a wire bonding capillary.
9. (Unamended) The printing system of claim 1, wherein the agent is a polynucleotide or polypeptide.

10. (Unamended) The printing system of claim 1, wherein the substrate provides a surface offering differential surface chemistry or topography.
11. (Unamended) The printing system of claim 1, wherein the substrate provides a surface offering differential surface chemistry or topography, which provide predetermined printing sites adapted to receiving, binding, reacting, containing or retaining the agent or liquid.
12. (Unamended) The printing system of claim 1, wherein the substrate is selected from the group consisting of glass, ceramic, plastic, metal, silicon, acetate and cellulose.
13. (Unamended) The printing system of claim 1, wherein the printing device further comprises a non-capillary chamber also containing the liquid and having a relatively larger internal diameter than and in fluid connection with the capillary.
14. (Unamended) The printing system of claim 1 further comprising a register comprising a guide which contacts a registration portion of the printing device, distal to the attachment portion, and moves the tip relative to the substrate.
15. (Amended) The printing system of claim 1, further comprising a preservation device within, containing or in contact with the printing device, which preserves the capability of the printing device to print the agent on the substrate over long-term storage of the printing device, wherein the preservation device comprises a deterrent to evaporation of the liquid, wherein the deterrent is selected from the group consisting of a hermetic barrier, a refrigerator, a humidifier and a hygroscopic agent.
16. (Unamended) The printing system of to claim 1, further comprising a preservation device within, containing or in contact with the printing device, which preserves the capability of the printing device to print the agent on the substrate over long-term storage of the printing device, wherein the preservation device comprises a deterrent to evaporation of the liquid, wherein the deterrent is a hermetic barrier.
17. (Amended) The printing system of claim 1, wherein the resistor is the weight of the capillary, and
wherein the printing device is one of a detachable ganged plurality of printing devices, each comprising a reservoir containing an agent unique to the reservoir, and the detachable ganged plurality comprises a block having receptacles for and which laterally constrain each of the printing devices.
18. (Amended) The printing system of claim 1, wherein the resistor is the weight of the capillary,
wherein the printing device is one of a detachable ganged plurality of printing devices, each comprising a reservoir containing an agent unique to the reservoir, and the detachable ganged plurality comprises a block having receptacles for and which laterally constrain each of the printing devices, wherein the printing devices comprise wire bonding capillaries.

19. (Amended) The printing system of claim 1, wherein the resistor is the weight of the capillary,

wherein the printing device is one of a detachable ganged plurality of printing devices, each comprising a reservoir containing an agent unique to the reservoir, and the detachable ganged plurality comprises a block having receptacles for and which laterally constrain each of the printing devices, wherein the printing devices comprise wire bonding capillaries, wherein the agent is a polynucleotide at least 50 nucleotides in length and the substrate is glass.

20. (Amended) A method for contact printing an agent on a substrate comprising the step of printing an agent with the printing system of claim 1 whereby the actuator urges the capillary along its longitudinal axis toward the substrate to contact the substrate, thereby decelerating the capillary to move the agent through the bore, out the tip and onto the substrate.

21. (Amended) A method for contact printing an agent on a substrate comprising the step of printing an agent with the printing system of claim 2 whereby the actuator urges the capillary along its longitudinal axis toward the substrate to contact the substrate, thereby decelerating the capillary to move the agent through the bore, out the tip and onto the substrate.

22. (Amended) A method for contact printing an agent on a substrate comprising the step of printing an agent with the printing system of claim 3 whereby the actuator urges the capillary along its longitudinal axis toward the substrate to contact the substrate, thereby decelerating the capillary to move the agent through the bore, out the tip and onto the substrate.

23. (Amended) A method for contact printing an agent on a substrate comprising the step of printing an agent with the printing system of claim 5 whereby the actuator urges the capillary along its longitudinal axis toward the substrate to contact the substrate, thereby decelerating the capillary to move the agent through the bore, out the tip and onto the substrate.

24. (Amended) A method for contact printing an agent on a substrate comprising the step of printing an agent with the printing system of claim 8 whereby the actuator urges the capillary along its longitudinal axis toward the substrate to contact the substrate, thereby decelerating the capillary to move the agent through the bore, out the tip and onto the substrate.

25. (Amended) A method for contact printing an agent on a substrate comprising the step of printing an agent with the printing system of claim 9 whereby the actuator urges the capillary along its longitudinal axis toward the substrate to contact the substrate, thereby decelerating the capillary to move the agent through the bore, out the tip and onto the substrate.

26. (Amended) A method for contact printing an agent on a substrate comprising the step of printing an agent with the printing system of claim 14 whereby the actuator urges the capillary along its longitudinal axis toward the substrate to contact the substrate, thereby decelerating the capillary to move the agent through the bore, out the tip and onto the substrate.

27. (Amended) A method for contact printing an agent on a substrate comprising the step of

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VERSION SHOWING AMENDMENTS

1. (Amended) A contact printing system comprising a pod, a detachable printing device, a substrate, [a positioner] an actuator and a motion resistor, wherein:

the pod comprises a receptacle for reversibly attaching an attachment portion of the printing device;

the printing device comprises a reservoir having a proximal opening to ambient pressure, the reservoir containing a liquid comprising a predetermined agent [and in fluid connection with the reservoir] and, a capillary comprising an axial bore having a proximal [and distal] opening[s] in fluid connection with the reservoir and a distal opening open to ambient pressure and a printing tip comprising the distal opening [and which prints] operative to print the agent on the substrate;

[the positioner moves the pod relative to the substrate] the actuator is operative to reversibly urge the capillary along its longitudinal axis toward the substrate; and

the motion resistor is operative [ly joined to the capillary and providing an incomplete resistance] to incompletely resist motion of the capillary along its longitudinal axis, biasing said motion toward the substrate, wherein the resistor is selected from a plurality of springs, an elastomeric membrane and the weight of the capillary,

wherein the system [prints] is operative to print whereby the actuator urges the capillary along its longitudinal axis toward the substrate to contact the substrate, thereby by decelerating the capillary to move the agent through the bore, out the tip and onto the substrate.

3. (Amended) The printing system of claim 1 wherein the printing device is one of a detachable ganged plurality of printing devices, each comprising a reservoir containing an agent unique to the reservoir [and in fluid connection with the reservoir, a capillary having proximal and distal openings open to ambient pressure and a printing tip comprising the distal opening and which prints the agent on the substrate, wherein the pod comprises a receptacle for reversibly attaching an attachment portion of the printing devices].

4. (Amended) The printing system of claim 1 wherein the printing device is one of a detachable ganged plurality of printing devices, each comprising a reservoir containing an agent unique to the reservoir [and in fluid connection with the reservoir, a capillary having proximal and distal openings open to ambient pressure and a printing tip comprising the distal opening and which

prints the agent on the substrate, wherein the pod comprises a receptacle for reversibly attaching an attachment portion of the printing devices], and the detachable ganged plurality is of one-piece construction.

5. (Amended) The printing system of claim 1 wherein the printing device is one of a detachable ganged plurality of printing devices, each comprising a reservoir containing an agent unique to the reservoir [and in fluid connection with the reservoir, a capillary having proximal and distal openings open to ambient pressure and a printing tip comprising the distal opening and which prints the agent on the substrate, wherein the pod comprises a receptacle for reversibly attaching an attachment portion of the printing devices], and the detachable ganged plurality comprises a block having receptacles for and which laterally constrain each of the printing devices.

6. (Amended) The printing system of claim 1 wherein the printing device is one of a detachable ganged plurality of printing devices, each comprising a reservoir containing an agent unique to the reservoir [and in fluid connection with the reservoir, a capillary having proximal and distal openings open to ambient pressure and a printing tip comprising the distal opening and which prints the agent on the substrate, wherein the pod comprises a receptacle for reversibly attaching an attachment portion of the printing devices], and the detachable ganged plurality comprises a rigid or elastomeric band or clamp to gang together the printing devices.

Q3 15. (Amended) The printing system of claim 1, further comprising a preservation device within, containing or in contact with the printing device, which preserves the capability of the printing device to print the agent on the substrate over long-term storage of the printing device, wherein the preservation device comprises a deterrent to evaporation of the liquid, wherein the deterrent is selected from the group consisting of a hermetic barrier, a refrigerator, a humidifier and a hygroscopic agent[.,].

Q4 17. (Amended) The printing system of claim 1, wherein the resistor is the weight of the capillary, and

wherein the printing device is one of a detachable ganged plurality of printing devices, each comprising a reservoir containing an agent unique to the reservoir [and in fluid connection

with the reservoir, a capillary having proximal and distal openings open to ambient pressure and a printing tip comprising the distal opening and which prints the agent on the substrate, wherein the pod comprises a receptacle for reversibly attaching an attachment portion of the printing devices], and the detachable ganged plurality comprises a block having receptacles for and which laterally constrain each of the printing devices.

18. (Amended) The printing system of claim 1, wherein the resistor is the weight of the capillary,

wherein the printing device is one of a detachable ganged plurality of printing devices, each comprising a reservoir containing an agent unique to the reservoir [and in fluid connection with the reservoir, a capillary having proximal and distal openings open to ambient pressure and a printing tip comprising the distal opening and which prints the agent on the substrate, wherein the pod comprises a receptacle for reversibly attaching an attachment portion of the printing devices], and the detachable ganged plurality comprises a block having receptacles for and which laterally constrain each of the printing devices, wherein the printing devices comprise wire bonding capillaries.

19. (Amended) The printing system of claim 1, wherein the resistor is the weight of the capillary,

wherein the printing device is one of a detachable ganged plurality of printing devices, each comprising a reservoir containing an agent unique to the reservoir [and in fluid connection with the reservoir, a capillary having proximal and distal openings open to ambient pressure and a printing tip comprising the distal opening and which prints the agent on the substrate, wherein the pod comprises a receptacle for reversibly attaching an attachment portion of the printing devices], and the detachable ganged plurality comprises a block having receptacles for and which laterally constrain each of the printing devices, wherein the printing devices comprise wire bonding capillaries, wherein the agent is a polynucleotide at least 50 nucleotides in length and the substrate is glass.

20. (Amended) A method for contact printing an agent on a substrate comprising the step of printing an agent with the printing system of claim 1 whereby the actuator urges the capillary along its longitudinal axis toward the substrate to contact the substrate, thereby decelerating the

capillary to move the agent through the bore, out the tip and onto the substrate.

21. (Amended) A method for contact printing an agent on a substrate comprising the step of printing an agent with the printing system of claim 2 whereby the actuator urges the capillary along its longitudinal axis toward the substrate to contact the substrate, thereby decelerating the capillary to move the agent through the bore, out the tip and onto the substrate.

22. (Amended) A method for contact printing an agent on a substrate comprising the step of printing an agent with the printing system of claim 3 whereby the actuator urges the capillary along its longitudinal axis toward the substrate to contact the substrate, thereby decelerating the capillary to move the agent through the bore, out the tip and onto the substrate.

23. (Amended) A method for contact printing an agent on a substrate comprising the step of printing an agent with the printing system of claim 5 whereby the actuator urges the capillary along its longitudinal axis toward the substrate to contact the substrate, thereby decelerating the capillary to move the agent through the bore, out the tip and onto the substrate.

24. (Amended) A method for contact printing an agent on a substrate comprising the step of printing an agent with the printing system of claim 8 whereby the actuator urges the capillary along its longitudinal axis toward the substrate to contact the substrate, thereby decelerating the capillary to move the agent through the bore, out the tip and onto the substrate.

25. (Amended) A method for contact printing an agent on a substrate comprising the step of printing an agent with the printing system of claim 9 whereby the actuator urges the capillary along its longitudinal axis toward the substrate to contact the substrate, thereby decelerating the capillary to move the agent through the bore, out the tip and onto the substrate.

26. (Amended) A method for contact printing an agent on a substrate comprising the step of printing an agent with the printing system of claim 14 whereby the actuator urges the capillary along its longitudinal axis toward the substrate to contact the substrate, thereby decelerating the capillary to move the agent through the bore, out the tip and onto the substrate.

27. (Amended) A method for contact printing an agent on a substrate comprising the step of printing an agent with the printing system of claim 16 whereby the actuator urges the capillary along its longitudinal axis toward the substrate to contact the substrate, thereby decelerating the capillary to move the agent through the bore, out the tip and onto the substrate.

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28. (Amended) A method for contact printing an agent on a substrate comprising the step of printing an agent with the printing system of claim 18 whereby the actuator urges the capillary along its longitudinal axis toward the substrate to contact the substrate, thereby decelerating the capillary to move the agent through the bore, out the tip and onto the substrate.

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29. (Amended) A method for contact printing an agent on a substrate comprising the step of printing an agent with the printing system of claim 19 whereby the actuator urges the capillary along its longitudinal axis toward the substrate to contact the substrate, thereby decelerating the capillary to move the agent through the bore, out the tip and onto the substrate.
